

Appendix E
Biological Resources Data

SPECIAL-STATUS SPECIES WITH THE POTENTIAL TO OCCUR AT THE PROJECT SITE

Scientific Name	Common Name	Listing Status: Federal/State/Other	Habitat Description	Potential for Occurrence within the Project Site
Amphibians				
<i>Ambystoma californiense</i>	California tiger salamander	FT/ST/--	Found in vernal pools, ephemeral wetlands, and seasonal ponds, including constructed stock ponds, in grassland and oak savannah plant communities from 3 to 1,054 meters.	None. The project site does not provide habitat for this species.
<i>Rana draytonii</i>	California red-legged frog	FT/SSC/--	Found in permanent and temporary pools of streams, marshes, and ponds with dense grassy and/or shrubby vegetation from 0 to 1,500 meters.	None. The Project does not provide suitable habitat for this species.
<i>Spea hammondi</i>	western spadefoot	--/SSC/--	Occurs primarily in grassland habitats, but can be found in valley-foothill hardwood woodlands. Vernal pools are essential for breeding and egg-laying.	None. The project site does not provide habitat for this species.
Birds				
<i>Agelaius tricolor</i>	tricolored blackbird	--/SC, SSC/--	Highly colonial species, most numerous in central valley & vicinity. Largely endemic to California. Requires open water, protected nesting substrate, & foraging area with insect prey within a few km of the colony.	None. The project site does not provide habitat for this species.
<i>Aquila chrysaetos</i>	golden eagle	--/FP/--	Nests and forages in a variety of open habitats, including grassland, shrubland, and cropland; most common in foothill habitats; rare foothill breeder; nests in cliffs, rock outcrops, and large trees.	None. This species avoids nesting near cities and other urban habitat.
<i>Athene cucularia</i>	burrowing owl	--/SSC/--	Nests and forages in grasslands, agricultural fields, and low scrub habitats, especially where ground squirrel burrows are present; occasionally inhabits artificial structures and small patches of disturbed habitat.	Low. Burrows were identified in several locations on the FMP portion of the project site during the 2017 reconnaissance fieldwork. No burrowing owls or evidence of burrowing owls was observed. The nearest presumed extant CNDDDB occurrence of this species located 3.2 miles east-southeast of the project site.
<i>Buteo swainsoni</i>	Swainson's hawk	--/ST/--	Breeds in grasslands with scattered trees, juniper-sage flats, riparian areas, savannahs, and agricultural or ranch lands with groves or lines of trees. Requires adjacent suitable foraging areas such as grasslands, or alfalfa or grain fields supporting rodent populations.	Low. Upon completion of the Demolition Project, no trees will remain on the project site. The project site will not provide nesting habitat for Swainson's hawks. Mature trees adjacent to the site could provide habitat, although more suitable habitat is located within the riparian corridors of the Sacramento and American rivers located over 0.4 mile away. The nearest CNDDDB occurrence of this species is located 0.7 mile north of the project site.

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Scientific Name	Common Name	Listing Status: Federal/State/Other	Habitat Description	Potential for Occurrence within the Project Site
Birds (cont.)				
<i>Coccyzus americanus occidentalis</i>	western yellow-billed cuckoo	FT/SE/--	Riparian forest nester, along the broad, lower flood-bottoms of larger river systems. Nests in riparian jungles of willow, often mixed with cottonwoods, w/lower story of blackberry, nettles, or wild grape.	None. The project site does not provide habitat for this species.
<i>Elanus leucurus</i>	white-tailed kite	--/FP/--	Inhabits rolling foothills and valley margins with scattered oaks and river bottomlands or marshes next to deciduous woodland. Open grasslands, meadows, or marshes for foraging close to isolated, dense-topped trees for nesting and perching.	Low. Upon completion of the Demolition Project, no trees will remain on the project site. The project site will not provide nesting habitat for white-tailed kite. Mature trees adjacent to the site could provide habitat, although more suitable habitat is located within the riparian corridors of the Sacramento and American rivers located over 0.4 mile away. The nearest CNDDDB occurrence of this species is located 1.2 mile east of the project site.
<i>Laterallus jamaicensis coturniculus</i>	California black rail	--/ST, FP/--	Nests in high portions of salt marshes, shallow freshwater marshes, wet meadows, and flooded grassy vegetation.	None. The project site does not provide nesting habitat for this species.
<i>Melospiza melodia</i>	Song sparrow "Modesto" population	--/SSC/--	Emergent freshwater marshes dominated by tule (<i>Scirpus spp.</i> , <i>Schoenoplectus spp.</i>) and cattail (<i>Typha spp.</i>) as well as riparian willow (<i>Salix spp.</i>) thickets. Also nest in riparian forests of valley oak (<i>Quercus lobata</i>) with a sufficient understory of blackberry (<i>Rubus spp.</i>), along vegetated irrigation canals and levees, and in recently planted valley oak restoration sites.	None. The project site does not provide nesting habitat for this species.
<i>Progne subis</i>	purple martin	--/SSC/--	Inhabits woodlands, low elevation coniferous forest of Douglas-fir (<i>Pseudotsuga menziesii</i>), ponderosa pine (<i>Pinus ponderosa</i>), and Monterey pine (<i>Pinus radiata</i>).	None. The project site does not provide nesting habitat for this species.
<i>Riparia riparia</i>	bank swallow	--/ST/--	Colonial nester; nests primarily in riparian and other lowland habitats west of the desert. Requires vertical banks/cliffs with fine-textured/sandy soils near streams, rivers, lakes, ocean to dig nesting hole.	None. The project site does not provide nesting habitat for this species.
<i>Vireo bellii pusillus</i>	Least Bell's vireo	FE/SE/--	Summer resident of Southern California in low riparian in vicinity of water or in dry river bottoms; below 2000 feet. Nests placed along margins of bushes or on twigs projecting into pathways, usually willow, <i>Baccharis</i> sp., and mesquite.	None. The project site does not provide nesting habitat for this species.

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Scientific Name	Common Name	Listing Status: Federal/State/Other	Habitat Description	Potential for Occurrence within the Project Site
Birds (cont.)				
<i>Xanthocephalus xanthocephalus</i>	yellow-headed blackbird	--/SSC/--	Nests in freshwater emergent wetlands with dense vegetation and deep water. Often along borders of lakes or ponds. Nests only where large insects such as Odonata are abundant; nesting timed with maximum emergence of aquatic insects	None. The project site does not provide nesting habitat for this species.
Fish				
<i>Archoplites interruptus</i>	Sacramento perch	--/CSC/--	Historically found in the sloughs, slow moving rivers, and lakes of the central valley. Prefer warm water. Aquatic vegetation is essential for young. (Within native range only)	None. The project site does not provide habitat for this species.
<i>Hypomesus transpacificus</i>	Delta smelt	FT/SE/--	Open surface waters in the Sacramento/San Joaquin Delta. Seasonally in Suisun Bay, Carquinez Strait and San Pablo Bay. Found in Delta estuaries with dense aquatic vegetation and low occurrence of predators. May be affected by downstream sedimentation.	None. The project site does not provide habitat for this species.
<i>Oncorhynchus mykiss irideus</i> pop. 11	Central Valley DPS steelhead	FT/--/--	This ESU enters the Sacramento and San Joaquin Rivers and their tributaries from July to May; spawning from December to April. Young move to rearing areas in and through the Sacramento and San Joaquin Rivers, Delta, and San Pablo and San Francisco Bays.	None. The project site does not provide habitat for this species.
<i>Oncorhynchus tshawytscha</i> pop. 7	chinook salmon - Sacramento River winter-run ESU	FE/SE/--	Anadromous species using riverine, estuarine, and saltwater habitat. Adult migration potentially occurs from January through May. Juvenile outmigration occurs from November through mid-March.	None. The project site does not provide habitat for this species.
<i>Oncorhynchus tshawytscha</i> pop. 6	chinook salmon - Central Valley spring-run ESU	FT/ST/--	Anadromous species using riverine, estuarine, and saltwater habitat. Adult migration potentially occurs from March through May. Juvenile outmigration occurs from November through April.	None. The project site does not provide habitat for this species.
<i>Pogonichthys macrolepidotus</i>	Sacramento splittail	--/SSC/--	Splittail spawn in shallow water over flooded vegetated habitat with a detectable water flow. Splittail larvae and juveniles remain in riparian or annual vegetation along shallow edges on floodplains	None. The project site does not provide habitat for this species.

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Scientific Name	Common Name	Listing Status: Federal/State/Other	Habitat Description	Potential for Occurrence within the Project Site
Fish (cont.)				
<i>Spirinchus thaleichthys</i>	longfin smelt	FC/ST,SSC/--	Euryhaline, nektonic & anadromous. Found in open waters of estuaries, mostly in middle or bottom of water column. Prefer salinities of 15-30 ppt, but can be found in completely freshwater to almost pure seawater.	None. The project site does not provide habitat for this species.
Invertebrates				
<i>Branchinecta lynchi</i>	Vernal pool fairy shrimp	FT/--/--	Endemic to the grasslands of the Central Valley, central coast mountains, and south coast mountains, in astatic rain-filled pools. Inhabit small, clear-water sandstone-depression pools and grassed swale, earth slump, or basalt-flow depression pools.	None. The project site does not provide habitat for this species.
<i>Desmocerus californicus dimorphus</i>	valley elderberry longhorn beetle	FT/--/--	Occurs only in the Central Valley of California, in association with blue elderberry (<i>Sambucus nigra</i> ssp. <i>caerulea</i>). Prefers to lay eggs in elderberries 2-8 inches in diameter; some preference shown for "stressed" elderberries.	Low. Two large elderberry shrubs located approximately 40 feet west of the western FMP fence line were identified during the 2017 reconnaissance fieldwork. The shrubs are not located in a riparian area and are located over 0.7 mile from known VELB records.
<i>Lepidurus packardii</i>	vernal pool tadpole shrimp	FE/--/--	Inhabits vernal pools and swales in the Sacramento Valley containing clear to highly turbid water. Pools commonly found in grass bottomed swales of unplowed grasslands. Some pools are mud-bottomed & highly turbid.	None. The project site does not provide habitat for this species.
Mammals				
<i>Taxidea taxus</i>	American badger	--/SSC/--	Drier open shrub, forest, and herbaceous habitats with friable soils	None. This species is not found in highly urbanized areas. The project site does not provide habitat for this species.
Reptiles				
<i>Emys marmorata</i>	western pond turtle	--/SSC/--	A thoroughly aquatic turtle of ponds, marshes, rivers, streams & irrigation ditches, usually with aquatic vegetation, below 6000 FT elevation. Need basking sites and suitable (sandy banks or grassy open fields) upland habitat up to 0.5 km from water for egg-laying.	None. The project site does not provide habitat for this species.
<i>Thamnophis gigas</i>	Giant garter snake	FT/ST/--	Prefers freshwater marsh and low gradient streams. Has adapted to drainage canals & and irrigation ditches. This is the most aquatic of the garter snakes in California.	None. The project site does not provide habitat for this species.

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Scientific Name	Common Name	Listing Status: Federal/State/Other	Habitat Description	Potential for Occurrence within the Project Site
Plants				
<i>Astragalus tener</i> var. <i>ferrisiae</i>	Ferris' milk-vetch	--/--/1B.1	Annual herb found in meadows and seeps that are occasionally vernal mesic and valley and foothill grassland that are occasionally subalkaline flats from 2 to 75 meters. Blooms April through May.	None. The project site does not provide habitat for this species.
<i>Carex comosa</i>	bristly sedge	--/--/2B.1	Perennial rhizomatous herb found in coastal prairie, marshes and swamps, occasionally along lake margins, and valley and foothill grassland from 0 to 625 meters. Blooms May through September.	None. The project site does not provide habitat for this species.
<i>Centromadia parryi</i> ssp. <i>parryi</i>	pappose tarplant	--/--/1B.2	Annual herb found in grassland, coastal salt marshes, alkaline springs, and seeps from 0 to 400 meters in elevation. Blooms May through November.	None. The project site does not provide habitat for this species.
<i>Cuscuta obtusiflora</i> var. <i>glandulosa</i>	Peruvian dodder	--/--/2B.2	Annual parasitic vine found in marshes and swamps, which are occasionally freshwater, from 15 to 280 meters. Blooms July through October.	None. The project site does not provide habitat for this species.
<i>Downingia pusilla</i>	dwarf downingia	--/--/2B.2	Annual herb found in valley and foothill grassland, occasionally on mesic soils, and in vernal pools from 1 to 445 meters. Blooms March through May.	None. The project site does not provide habitat for this species.
<i>Gratiola heterosepala</i>	Boggs Lake hedge-hyssop	--/SE/1B.2	Annual herb found on clay substrate in marshes and swamps, occasionally along lake margins, and vernal pools from 10 to 2,375 meters. Blooms April through August.	None. The project site does not provide habitat for this species.
<i>Hibiscus lasiocarpus</i> var. <i>occidentalis</i>	woolly rose-mallow	--/--/1B.2	Perennial rhizomatous herb found in marshes and swamps, which are occasionally freshwater, from 1 to 120 meters. Blooms June through September.	None. The project site does not provide habitat for this species.
<i>Juglans hindsii</i>	Northern California black walnut	--/--/1B.1	Perennial deciduous tree found in riparian forest and riparian woodland from 0 to 440 meters. Blooms April through May.	None. The project site does not provide habitat for this species.
<i>Juncus leiospermus</i> var. <i>ahartii</i>	Ahart's dwarf rush	--/--/1B.2	Annual herb found in vernal pool margins within valley and foothill grasslands. Found at elevations from 30 to 229 meters. Blooms March through May.	None. The project site does not provide habitat for this species.
<i>Legenere limosa</i>	Legenere	--/--/1B.1	Bottoms of vernal pools and other wet depressions in grassland communities. Annual herb found in vernal pools from 1 to 880 meters. Blooms April through June.	None. The project site does not provide habitat for this species.
<i>Lepidium latipes</i> var. <i>heckardii</i>	Heckard's pepper-grass	--/--/1B.2	Alkaline flats and in alkaline grasslands along the edges of vernal pools. Found at elevations from 2 to 200 meters. Blooms March-May.	None. The project site does not provide habitat for this species.

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Scientific Name	Common Name	Listing Status: Federal/State/Other	Habitat Description	Potential for Occurrence within the Project Site
Plants (cont.)				
<i>Lilaeopsis masonii</i>	Mason's lilaeopsis	--/SR/1B.1	Rhizomatous herb found in marshes and swamps, that are occasionally brackish or freshwater, and riparian scrub from 0 to 10 meters. Blooms April through November.	None. The project site does not provide habitat for this species.
<i>Orcuttia tenuis</i>	Slender Orcutt grass	FT/SE/1B.1	Annual herb found in vernal pools. Found at elevations from 35 to 1760 meters. Blooms May through September.	None. The project site does not provide habitat for this species.
<i>Orcuttia viscida</i>	Sacramento Orcutt grass	FE/SE/1B.1	Annual herb found in vernal pools. Found at elevations from 30 to 100 meters. Blooms April through July.	None. The project site does not provide habitat for this species.
<i>Sagittaria sanfordii</i>	Sanford's arrowhead	--/--/1B.2	Perennial rhizomatous herb, which is occasionally emergent, found in marshes and swamps, which are occasionally comprised of assorted shallow freshwater, from 0 to 650 meters. Blooms May through October.	None. The project site does not provide habitat for this species.
<i>Symphyotrichum lentum</i>	Suisun Marsh aster	--/--/1B.2	Perennial rhizomatous herb found in marshes and swamps, which are occasionally brackish and freshwater, from 0 to 3 meters. Blooms May through November.	None. The project site does not provide habitat for this species.
<i>Trifolium hydrophilum</i>	saline clover	--/--/1B.2	Found in marshes and swamps, valley and foothill grassland, occasionally in mesic or alkaline areas, and vernal pools from 0 to 300 meters. Blooms April through June.	None. The project site does not provide habitat for this species
Sensitive Natural Communities				
Northern Claypan Vernal Pool	--	--	Similar to Northern Hardpan Vernal Pools, but with less topographical relief, and usually lower overall cover. Pools range in size from the small (a few square meters) to quite large (covering several hectares).	None. The project site does not contain this sensitive natural community.
Northern Hardpan Vernal Pool	--	--	Community is dominated by annual grasses and herbs that grow in and out of the water. Germination and growth begin with winter rains, often continuing even when inundated. These pools gradually evaporate during spring, leaving concentric bands of vegetation that colorfully encircle the drying pools.	None. The project site does not contain this sensitive natural community.
Northern Volcanic Mud Flow Vernal Pool	--	--	Vernal pools occur on tertiary volcanic mudflows called lahars. The pools are small, forming in irregular depressions in gently sloping surfaces.	None. The project site does not contain this sensitive natural community.

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Scientific Name	Common Name	Listing Status: Federal/State/Other	Habitat Description	Potential for Occurrence within the Project Site
Sensitive Natural Communities (cont.)				
Elderberry savanna	--	--	Open to moderately closed stands characterized by <i>Sambucus Mexicana</i> . Understory typically dominated by grasses. Occurs in association with remnant riparian forest vegetation.	None. The project site does not contain this sensitive natural community.
Great Valley Cottonwood Riparian Forest	--	--	A dense, broadleaved, winter deciduous riparian forest dominated by Fremont cottonwood (<i>Populus fremontii</i>) and Goodding's black willow (<i>Salix gooddingii</i>). The understory is usually dense, with abundant vegetative reproduction of canopy dominants and California wild grape is the most conspicuous vine. Habitat experiences frequent flooding.	None. The project site does not contain this sensitive natural community.
Great Valley Oak Riparian Forest	--	--	A medium to tall (rarely to 100 feet), broadleaved, winter-deciduous, closed-canopy riparian forest dominated by valley oak (<i>Quercus lobata</i>). Canopy is open to continuous. Shrub layer is open to intermittent. Herbaceous layer may be grassy. Soils are alluvial or residual.	None. The project site does not contain this sensitive natural community.

KEY:

Federal: (USFWS)

- FE = Listed as Endangered by the Federal Government
- FT = Listed as Threatened by the Federal Government
- FC = Candidate for listing by the Federal Government
- (PD) = Proposed for Delisting

State: (CDFW)

- SE = Listed as Endangered by the State of California
- ST = Listed as Threatened by the State of California
- SR = Listed as Rare by the State of California (plants only)
- SC = Candidate for listing by the State of California
- SSC = California Species of Special Concern
- FP = CDFW Fully Protected Species

CRPR: (California Rare Plant Rank)

- Rank 1A = Plants presumed extinct in California
- Rank 1B = Plants rare, threatened, or endangered in California and elsewhere
- Rank 2A = Plants presumed extirpated in California but common elsewhere
- Rank 2B = Plants rare, threatened, or endangered in California but more common elsewhere

Note: Ranks at each level also includes a threat rank (e.g., CRPR 2B.2) and are determined as follows:

- 0.1 – Seriously threatened in California (over 80% of occurrences threatened / high degree and immediacy of threat)
- 0.2 – Moderately threatened in California (20-80% occurrences threatened / moderate degree and immediacy of threat)
- 0.3 – Not very threatened in California (less than 20% of occurrences threatened / low degree and immediacy of threat or no current threats known)

Present: Species known to occur within the Site based on CNDDDB records and/or observed within the Site during the biological surveys.

High: Species known to occur on or near the Site (based on CNDDDB records within five miles and/or based on professional expertise specific to the Site or species) and there is suitable habitat for the species on the Site.

Low: Species known to occur in the vicinity of the Site and there is marginal habitat within the Site -OR- Species is not known to occur in the vicinity of the site, however, there is suitable habitat for the species on the site.

None: Species is not known to occur on or in the vicinity of the Site and there is no suitable habitat within the Site -OR- Species was surveyed for during the appropriate season with negative results -OR- The Site does not provide suitable soils or occurs outside of the known elevation or geographic ranges -OR- Species is not known to occur in Sacramento County.

SOURCES: CDFW 2018; CNPS 2018; and USFWS 2018.



Selected Elements by Scientific Name

California Department of Fish and Wildlife

California Natural Diversity Database



Query Criteria: Quad (Taylor Monument (3812165) OR Sacramento East (3812154) OR Sacramento West (3812155) OR Clarksburg (3812145) OR Rio Linda (3812164) OR Florin (3812144) OR Citrus Heights (3812163) OR Carmichael (3812153) OR Elk Grove (3812143))

Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
<i>Accipiter cooperii</i> Cooper's hawk	ABNKC12040	None	None	G5	S4	WL
<i>Agelaius tricolor</i> tricolored blackbird	ABPBXB0020	None	Candidate Endangered	G2G3	S1S2	SSC
<i>Andrena subapasta</i> An andrenid bee	IIHYM35210	None	None	G1G2	S1S2	
<i>Aquila chrysaetos</i> golden eagle	ABNKC22010	None	None	G5	S3	FP
<i>Archoplites interruptus</i> Sacramento perch	AFCQB07010	None	None	G2G3	S1	SSC
<i>Ardea alba</i> great egret	ABNGA04040	None	None	G5	S4	
<i>Ardea herodias</i> great blue heron	ABNGA04010	None	None	G5	S4	
<i>Astragalus tener var. ferrisiae</i> Ferris' milk-vetch	PDFAB0F8R3	None	None	G2T1	S1	1B.1
<i>Athene cunicularia</i> burrowing owl	ABNSB10010	None	None	G4	S3	SSC
<i>Branchinecta lynchi</i> vernal pool fairy shrimp	ICBRA03030	Threatened	None	G3	S3	
<i>Branchinecta mesoovallensis</i> midvalley fairy shrimp	ICBRA03150	None	None	G2	S2S3	
<i>Buteo regalis</i> ferruginous hawk	ABNKC19120	None	None	G4	S3S4	WL
<i>Buteo swainsoni</i> Swainson's hawk	ABNKC19070	None	Threatened	G5	S3	
<i>Carex comosa</i> bristly sedge	PMCYP032Y0	None	None	G5	S2	2B.1
<i>Centromadia parryi ssp. parryi</i> pappose tarplant	PDAST4R0P2	None	None	G3T2	S2	1B.2
<i>Cicindela hirticollis abrupta</i> Sacramento Valley tiger beetle	IICOL02106	None	None	G5TH	SH	
<i>Coccyzus americanus occidentalis</i> western yellow-billed cuckoo	ABNRB02022	Threatened	Endangered	G5T2T3	S1	
<i>Cuscuta obtusiflora var. glandulosa</i> Peruvian dodder	PDCUS01111	None	None	G5T4T5	SH	2B.2



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Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
<i>Desmocerus californicus dimorphus</i> valley elderberry longhorn beetle	IICOL48011	Threatened	None	G3T2	S2	
<i>Downingia pusilla</i> dwarf downingia	PDCAM060C0	None	None	GU	S2	2B.2
<i>Dumontia oregonensis</i> hairy water flea	ICBRA23010	None	None	G1G3	S1	
<i>Egretta thula</i> snowy egret	ABNGA06030	None	None	G5	S4	
<i>Elanus leucurus</i> white-tailed kite	ABNKC06010	None	None	G5	S3S4	FP
<i>Elderberry Savanna</i> Elderberry Savanna	CTT63440CA	None	None	G2	S2.1	
<i>Emys marmorata</i> western pond turtle	ARAAD02030	None	None	G3G4	S3	SSC
<i>Falco columbarius</i> merlin	ABNKD06030	None	None	G5	S3S4	WL
<i>Fritillaria agrestis</i> stinkbells	PMLIL0V010	None	None	G3	S3	4.2
<i>Gratiola heterosepala</i> Boggs Lake hedge-hyssop	PDSCR0R060	None	Endangered	G2	S2	1B.2
<i>Great Valley Cottonwood Riparian Forest</i> Great Valley Cottonwood Riparian Forest	CTT61410CA	None	None	G2	S2.1	
<i>Great Valley Valley Oak Riparian Forest</i> Great Valley Valley Oak Riparian Forest	CTT61430CA	None	None	G1	S1.1	
<i>Hibiscus lasiocarpus var. occidentalis</i> woolly rose-mallow	PDMAL0H0R3	None	None	G5T3	S3	1B.2
<i>Hydrochara rickseckeri</i> Ricksecker's water scavenger beetle	IICOL5V010	None	None	G2?	S2?	
<i>Juglans hindsii</i> Northern California black walnut	PDJUG02040	None	None	G1	S1	1B.1
<i>Juncus leiospermus var. ahartii</i> Ahart's dwarf rush	PMJUN011L1	None	None	G2T1	S1	1B.2
<i>Lasiurus cinereus</i> hoary bat	AMACC05030	None	None	G5	S4	
<i>Laterallus jamaicensis coturniculus</i> California black rail	ABNME03041	None	Threatened	G3G4T1	S1	FP
<i>Legenere limosa</i> legenere	PDCAM0C010	None	None	G2	S2	1B.1
<i>Lepidium latipes var. heckardii</i> Heckard's pepper-grass	PDBRA1M0K1	None	None	G4T1	S1	1B.2
<i>Lepidurus packardi</i> vernal pool tadpole shrimp	ICBRA10010	Endangered	None	G4	S3S4	



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<i>Lilaeopsis masonii</i> Mason's lilaepsis	PDAPI19030	None	Rare	G2	S2	1B.1
<i>Linderiella occidentalis</i> California linderiella	ICBRA06010	None	None	G2G3	S2S3	
<i>Melospiza melodia</i> song sparrow ("Modesto" population)	ABPBXA3010	None	None	G5	S3?	SSC
<i>Northern Claypan Vernal Pool</i> Northern Claypan Vernal Pool	CTT44120CA	None	None	G1	S1.1	
<i>Northern Hardpan Vernal Pool</i> Northern Hardpan Vernal Pool	CTT44110CA	None	None	G3	S3.1	
<i>Northern Volcanic Mud Flow Vernal Pool</i> Northern Volcanic Mud Flow Vernal Pool	CTT44132CA	None	None	G1	S1.1	
<i>Nycticorax nycticorax</i> black-crowned night heron	ABNGA11010	None	None	G5	S4	
<i>Oncorhynchus mykiss irideus pop. 11</i> steelhead - Central Valley DPS	AFCHA0209K	Threatened	None	G5T2Q	S2	
<i>Oncorhynchus tshawytscha pop. 6</i> chinook salmon - Central Valley spring-run ESU	AFCHA0205A	Threatened	Threatened	G5	S1	
<i>Oncorhynchus tshawytscha pop. 7</i> chinook salmon - Sacramento River winter-run ESU	AFCHA0205B	Endangered	Endangered	G5	S1	
<i>Orcuttia tenuis</i> slender Orcutt grass	PMPOA4G050	Threatened	Endangered	G2	S2	1B.1
<i>Orcuttia viscida</i> Sacramento Orcutt grass	PMPOA4G070	Endangered	Endangered	G1	S1	1B.1
<i>Phalacrocorax auritus</i> double-crested cormorant	ABNFD01020	None	None	G5	S4	WL
<i>Pogonichthys macrolepidotus</i> Sacramento splittail	AFCJB34020	None	None	GNR	S3	SSC
<i>Progne subis</i> purple martin	ABPAU01010	None	None	G5	S3	SSC
<i>Riparia riparia</i> bank swallow	ABPAU08010	None	Threatened	G5	S2	
<i>Sagittaria sanfordii</i> Sanford's arrowhead	PMALI040Q0	None	None	G3	S3	1B.2
<i>Spea hammondi</i> western spadefoot	AAABF02020	None	None	G3	S3	SSC
<i>Spirinchus thaleichthys</i> longfin smelt	AFCHB03010	Candidate	Threatened	G5	S1	SSC
<i>Symphotrichum lentum</i> Suisun Marsh aster	PDASTE8470	None	None	G2	S2	1B.2
<i>Taxidea taxus</i> American badger	AMAJF04010	None	None	G5	S3	SSC



Selected Elements by Scientific Name
California Department of Fish and Wildlife
California Natural Diversity Database



Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
<i>Thamnophis gigas</i> giant gartersnake	ARADB36150	Threatened	Threatened	G2	S2	
<i>Trifolium hydrophilum</i> saline clover	PDFAB400R5	None	None	G2	S2	1B.2
<i>Vireo bellii pusillus</i> least Bell's vireo	ABPBW01114	Endangered	Endangered	G5T2	S2	
<i>Xanthocephalus xanthocephalus</i> yellow-headed blackbird	ABPBXB3010	None	None	G5	S3	SSC

Record Count: 64



United States Department of the Interior



FISH AND WILDLIFE SERVICE
Sacramento Fish And Wildlife Office
Federal Building
2800 Cottage Way, Room W-2605
Sacramento, CA 95825-1846
Phone: (916) 414-6600 Fax: (916) 414-6713

In Reply Refer To:
Consultation Code: 08ESMF00-2019-SLI-0623
Event Code: 08ESMF00-2019-E-01874
Project Name: Richards Boulevard Office Complex

December 18, 2018

Subject: List of threatened and endangered species that may occur in your proposed project location, and/or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, under the jurisdiction of the U.S. Fish and Wildlife Service (Service) that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the Service under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

Please follow the link below to see if your proposed project has the potential to affect other species or their habitats under the jurisdiction of the National Marine Fisheries Service:

http://www.nwr.noaa.gov/protected_species/species_list/species_lists.html

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2) (c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

<http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF>

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*), and projects affecting these species may require development of an eagle conservation plan (http://www.fws.gov/windenergy/eagle_guidance.html). Additionally, wind energy projects should follow the wind energy guidelines (<http://www.fws.gov/windenergy/>) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at: <http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm>; <http://www.towerkill.com>; and <http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html>.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List

Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Sacramento Fish And Wildlife Office

Federal Building

2800 Cottage Way, Room W-2605

Sacramento, CA 95825-1846

(916) 414-6600

Project Summary

Consultation Code: 08ESMF00-2019-SLI-0623

Event Code: 08ESMF00-2019-E-01874

Project Name: Richards Boulevard Office Complex

Project Type: DEVELOPMENT

Project Description: The purpose of the Richards Boulevard Office Complex Project is to consolidate State office space and address State office space deficiencies in downtown Sacramento and to provide a modern, efficient, and safe environment for State employees and the public they serve.

Project Location:

Approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/place/38.59446171961495N121.4930618497282W>



Counties: Sacramento, CA

Endangered Species Act Species

There is a total of 7 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries¹, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

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1. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

Reptiles

NAME	STATUS
Giant Garter Snake <i>Thamnophis gigas</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/4482	Threatened

Amphibians

NAME	STATUS
California Red-legged Frog <i>Rana draytonii</i> There is final critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/2891	Threatened
California Tiger Salamander <i>Ambystoma californiense</i> Population: U.S.A. (Central CA DPS) There is final critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/2076	Threatened

Fishes

NAME	STATUS
Delta Smelt <i>Hypomesus transpacificus</i> There is final critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/321	Threatened

Insects

NAME	STATUS
Valley Elderberry Longhorn Beetle <i>Desmocerus californicus dimorphus</i> There is final critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/7850 Habitat assessment guidelines: https://ecos.fws.gov/ipac/guideline/assessment/population/436/office/11420.pdf	Threatened

Crustaceans

NAME	STATUS
Vernal Pool Fairy Shrimp <i>Branchinecta lynchi</i> There is final critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/498	Threatened
Vernal Pool Tadpole Shrimp <i>Lepidurus packardii</i> There is final critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/2246	Endangered

Critical habitats

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

Plant List

Inventory of Rare and Endangered Plants

21 matches found. *Click on scientific name for details*

Search Criteria

Found in Quads 3812165, 3812164, 3812163, 3812155, 3812154, 3812153, 3812145 3812144 and 3812143;

[Modify Search Criteria](#)
[Export to Excel](#)
[Modify Columns](#)
[Modify Sort](#)
[Display Photos](#)

Scientific Name	Common Name	Family	Lifeform	Blooming Period	CA Rare Plant Rank	State Rank	Global Rank
Astragalus tener var. ferrisiae	Ferris' milk-vetch	Fabaceae	annual herb	Apr-May	1B.1	S1	G2T1
Carex comosa	bristly sedge	Cyperaceae	perennial rhizomatous herb	May-Sep	2B.1	S2	G5
Centromadia parryi ssp. parryi	pappose tarplant	Asteraceae	annual herb	May-Nov	1B.2	S2	G3T2
Centromadia parryi ssp. rudis	Parry's rough tarplant	Asteraceae	annual herb	May-Oct	4.2	S3	G3T3
Cuscuta obtusiflora var. glandulosa	Peruvian dodder	Convolvulaceae	annual vine (parasitic)	Jul-Oct	2B.2	SH	G5T4T5
Downingia pusilla	dwarf downingia	Campanulaceae	annual herb	Mar-May	2B.2	S2	GU
Fritillaria agrestis	stinkbells	Liliaceae	perennial bulbiferous herb	Mar-Jun	4.2	S3	G3
Gratiola heterosepala	Boggs Lake hedge-hyssop	Plantaginaceae	annual herb	Apr-Aug	1B.2	S2	G2
Hesperexax caulescens	hogwallow starfish	Asteraceae	annual herb	Mar-Jun	4.2	S3	G3
Hibiscus lasiocarpus var. occidentalis	woolly rose-mallow	Malvaceae	perennial rhizomatous herb (emergent)	Jun-Sep	1B.2	S3	G5T3
Juglans hindsii	Northern California black walnut	Juglandaceae	perennial deciduous tree	Apr-May	1B.1	S1	G1
Juncus leiospermus var. ahartii	Ahart's dwarf rush	Juncaceae	annual herb	Mar-May	1B.2	S1	G2T1
Legenere limosa	legenere	Campanulaceae	annual herb	Apr-Jun	1B.1	S2	G2
Lepidium latipes var. heckardii	Heckard's pepper-grass	Brassicaceae	annual herb	Mar-May	1B.2	S1	G4T1
Lilaeopsis masonii	Mason's lilaeopsis	Apiaceae	perennial rhizomatous herb	Apr-Nov	1B.1	S2	G2
Navarretia eriocephala	hoary navarretia	Polemoniaceae	annual herb	May-Jun	4.3	S4?	G4?
Orcuttia tenuis	slender Orcutt grass	Poaceae	annual herb	May-Sep(Oct)	1B.1	S2	G2
Orcuttia viscida	Sacramento Orcutt grass	Poaceae	annual herb	Apr-Jul(Sep)	1B.1	S1	G1
Sagittaria sanfordii	Sanford's arrowhead	Alismataceae	perennial rhizomatous herb (emergent)	May-Oct(Nov)	1B.2	S3	G3
Symphyotrichum lentum	Suisun Marsh aster	Asteraceae	perennial rhizomatous	(Apr)May-	1B.2	S2	G2

Trifolium hydrophilum	saline clover	Fabaceae	herb annual herb	Nov Apr-Jun	1B.2	S2	G2
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Suggested Citation

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